

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/507,416A  
Source: TFWP  
Date Processed by STIC: 06/29/2006

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 06/29/2006

PATENT APPLICATION: US/10/507,416A

TIME: 15:01:24

Input Set : A:\53940021.APP

Output Set: N:\CRF4\06292006\J507416A.raw

3 <110> APPLICANT: GROSJEAN-COURNOYER, MARIE-CLAIRE  
 4 DENFERT, CHRISTOPHE DIDIER  
 5 FIRON, ARNAUD  
 6 VILLALBA, FRANCOIS  
 7 LEBRUN, MARC-HENRI  
 8 BEFFA, ROLAND  
 10 <120> TITLE OF INVENTION: MUTAGENESIS OF ASPERGILLUS FUNGI AND IDENTIFICATION OF  
 11 GENES ESSENTIAL FOR GROWTH  
 13 <130> FILE REFERENCE: 05394.0021  
 15 <140> CURRENT APPLICATION NUMBER: 10/507,416A  
 16 <141> CURRENT FILING DATE: 2004-09-13  
 18 <150> PRIOR APPLICATION NUMBER: PCT/IB03/01374  
 19 <151> PRIOR FILING DATE: 2003-03-13  
 21 <150> PRIOR APPLICATION NUMBER: 60/363,543  
 22 <151> PRIOR FILING DATE: 2002-03-13  
 24 <150> PRIOR APPLICATION NUMBER: 60/434,407  
 25 <151> PRIOR FILING DATE: 2002-12-19  
 27 <160> NUMBER OF SEQ ID NOS: 199  
 29 <170> SOFTWARE: PatentIn Ver. 3.3  
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Cp9-6)

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88 <212> TYPE: DNA
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142 &lt;211&gt; LENGTH: 934

143 &lt;212&gt; TYPE: PRT

144 <213> ORGANISM: *Aspergillus fumigatus*

146 &lt;400&gt; SEQUENCE: 3

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151           20           25           30
153 Pro Ser Ala Lys Ser Lys Arg Gln Pro Pro Lys Lys Val Pro Ser Gln
154           35           40           45
156 Ala Leu Asp Phe Leu Gly Asp Val Asn Glu Asp Asp Asn Asp Asp Glu
157           50           55           60
159 Ala Phe Ile Ala Glu Gln Gln Thr Ser Ala Asn Arg Lys Ala Ser Asn
160           65           70           75           80
162 Leu Lys Gly Arg Thr Val Lys Lys Gly Gly Phe Gln Ala Met Gly
163           85           90           95
165 Leu Ser Ala Asn Leu Leu Lys Ala Ile Ala Arg Lys Gly Phe Ser Val

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169		115		120		125
171	Asp Val Val	Gly Met Ala Arg Thr	Gly Ser Gly Lys Thr	Ala Ala Phe		
172		130		135		140
174	Val Ile Pro	Met Ile Glu Lys Leu Lys	Ser His Ser Thr	Lys Val Gly		
175	145		150		155	160
177	Ala Arg Gly	Leu Val Leu Ser Pro	Ser Arg Glu Leu	Ala Leu Gln Thr		
178		165		170		175
180	Leu Lys Val	Val Lys Glu Leu Gly	Arg Gly Thr Asp	Leu Lys Ser Val		
181		180		185		190
183	Leu Leu Val	Gly Gly Asp Ser Leu	Glu Glu Gln Phe	Ala Met Ile Ala		
184		195		200		205
186	Gly Asn Pro	Asp Ile Ile Ile Ala	Thr Pro Gly Arg	Phe Leu His Leu		
187		210		215		220
189	Lys Val Glu	Met Asn Leu Asp Leu	Ser Ser Ile Arg	Tyr Val Val Phe		
190	225		230		235	240
192	Asp Glu Ala	Asp Arg Leu Phe Glu	Met Gly Phe Ala	Ala Gln Leu Thr		
193		245		250		255
195	Glu Ile Leu	His Gly Leu Pro Ala	Asn Arg Gln Thr	Leu Leu Phe Ser		
196		260		265		270
198	Ala Thr Leu	Pro Lys Ser Leu Val	Glu Phe Ala Arg	Ala Gly Leu Gln		
199		275		280		285
201	Glu Pro Thr	Leu Val Arg Leu Asp	Thr Glu Ser Lys	Ile Ser Pro Asp		
202		290		295		300
204	Leu Gln Asn	Ala Phe Phe Ser Val	Lys Ser Ser Glu	Lys Glu Gly Ala		
205	305		310		315	320
207	Leu Leu Tyr	Ile Leu His Glu Val	Ile Lys Met Pro	Thr Gly Pro Thr		
208		325		330		335
210	Glu Val Ser	Gln Gln Arg Lys Glu	Glu Asp Ala Ser	Ala Lys Asn Leu		
211		340		345		350
213	Lys Asn Lys	Lys Arg Lys Arg Ala	Glu Met Glu Lys	Ala Val Asn Thr		
214		355		360		365
216	Arg Glu Ser	Pro Thr Lys His Ser	Thr Ile Val Phe	Ala Ala Thr Lys		
217		370		375		380
219	His His Val	Asp Tyr Leu Tyr Ser	Leu Leu Cys Glu	Ala Gly Phe Ala		
220	385		390		395	400
222	Val Ser Tyr	Val Tyr Gly Ser Leu	Asp Gln Thr Ala	Arg Lys Ile Gln		
223		405		410		415
225	Val Gln Asn	Phe Arg Thr Gly Met	Thr Asn Ile Leu	Val Val Thr Asp		
226		420		425		430
228	Val Ala Ala	Arg Gly Ile Asp Ile	Pro Ile Leu Ala	Asn Val Ile Asn		
229		435		440		445
231	Tyr Asp Phe	Pro Ser Gln Pro Lys	Ile Phe Val His	Arg Val Gly Arg		
232		450		455		460
234	Thr Ala Arg	Ala Gly Arg Lys Gly	Trp Ser Tyr Ser	Leu Val Arg Asp		
235	465		470		475	480
237	Ala Asp Ala	Pro Tyr Leu Leu Asp	Leu Gln Leu Phe	Leu Gly Arg Arg		
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244          515          520          525
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247          530          535          540
249 Thr Val Ala Ala Lys Gly Glu Lys Leu Tyr Met Arg Thr Arg Asn Ala
250 545          550          555          560
252 Ala Ser Leu Glu Ser Ala Lys Arg Ser Lys Gln Val Val Ser Ser Asp
253          565          570          575
255 Asn Trp Thr Ser Val His Pro Leu Phe Gln Asp Glu Thr Ser Asn Leu
256          580          585          590
258 Glu Ala Glu Arg Glu Lys Met Leu Ala Arg Ile Gly Gly Tyr Arg Pro
259          595          600          605
261 Pro Glu Thr Ile Phe Glu Val Asn Asn Arg Arg Met Gly Lys His Glu
262          610          615          620
264 Asn Val Asp Ala Leu Asp Thr Ile Lys Arg Val Arg Ser Thr Leu Glu
265 625          630          635          640
267 Ser Lys Lys Lys Arg Ala Gln Ala Asn Glu Lys Ser Glu Phe Leu Glu
268          645          650          655
270 Asp Gly Pro Asp Asp Gly Lys Ala Val Asn Glu Ala Lys Glu Thr Glu
271          660          665          670
273 Ser Glu Gly Ala Phe Ser Asp Glu Asp Asp Asp Val Pro Thr Gly Val
274          675          680          685
276 Ala Asp Asn Met Ser Met Ala Ser Asp Ser Glu Leu Glu Val Thr Phe
277          690          695          700
279 Ser Ser Tyr Ser Lys Ser Lys Asp Asn Lys Ala Lys Lys Ala Ser Ala
280 705          710          715          720
282 Ala Ser Phe Gln Asn Pro Glu Tyr Phe Met Ser Tyr Thr Pro Asn Asn
283          725          730          735
285 Thr Ser Leu Ala Glu Asp Arg Ala Tyr Gly Val His Ser Gly Thr Asn
286          740          745          750
288 Ser Asn Phe Ala Gln Ala Ser Arg Ser Ala Thr Met Asp Leu Ala Gly
289          755          760          765
291 Asp Asp Gly Gly Arg Gly Phe Gly Glu Ala Arg Thr Leu Met Arg Trp
292          770          775          780
294 Asp Lys Arg His Lys Lys Tyr Val Ala Arg Gln Asn Asp Glu Asp Gly
295 785          790          795          800
297 Ser Lys Gly Thr Arg Leu Val Arg Gly Glu Ser Gly Ala Lys Ile Ala
298          805          810          815
300 Ala Ser Phe Arg Ser Gly Arg Phe Asp Ala Trp Lys Arg Glu Asn Arg
301          820          825          830
303 Leu Gly Arg Leu Pro Arg Val Gly Glu Ala Glu Ala Ala Asn Leu Ala
304          835          840          845
306 Ala Gly Leu Asn Ala Ala Ile Ser Gly Lys Arg Phe Arg His Arg Lys
307          850          855          860
309 Glu Gln Ala Pro Lys Lys Ala Asp Pro Leu Arg Gly Asp Tyr Glu Lys
310 865          870          875          880
312 Met Lys Lys Lys Ala Glu Leu Ala Lys Glu Arg Ala Met Ser Lys Ala

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RAW SEQUENCE LISTING ERROR SUMMARY  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:68; N Pos. 21,22,23,24,25,26,27,28,29,30  
Seq#:171; N Pos. 683  
Seq#:172; N Pos. 183  
Seq#:173; N Pos. 183

**VERIFICATION SUMMARY**

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Input Set : A:\53940021.APP

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L:3469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:0  
L:3487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:0  
L:3505 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:0  
L:8318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:171 after pos.:660  
L:8350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:172 after pos.:180  
L:8373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:173 after pos.:180